SEQUENCE LISTING

| <110> | Susan M. Freier Kenneth W. Dobie | |
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| | ANTISENSE MODULATION OF PHOSPHOINOSITIDE-3-KINASE, REGULATORY IT 4, P150 EXPRESSION | |
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| gag Glu | ttg Leu 235 | aag Lys | aga Arg | gca Ala | atg Met | gac Asp 240 | atc Ile | ttt Phe | tca Ser | gca Ala | ggt Gly 245 | tgt Cys | gtg Val | ata Ile | gct Ala | 1314 |
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| gaa Glu | gat Asp | cac His | agt Ser 285 | atc Ile | aga Arg | gaa Glu | ttg Leu | gta Val 290 | act Thr | cag Gln | atg Met | att Ile | cac His 295 | cgt Arg | gag Glu | 1458 |
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| | acc Thr | aaa Lys | gtt Val | ctt Leu 445 | gct Ala | ctc Leu | gtc Val | aaa Lys | gag Glu 450 | gtt Val | cct Pro | cgt Arg | aat Asn | gat Asp 455 | atc Ile | aat Asn | 1938 |
| | att Ile | tat Tyr | ccg Pro 460 | gaa Glu | tac Tyr | att Ile | ctg Leu | cca Pro 465 | ggc Gly | ata Ile | gcc Ala | cac His | tta Leu 470 | gcc Ala | caa Gln | gat Asp | 1986 |
| | gat Asp | gct Ala 475 | act Thr | atc Ile | gtt Val | aga Arg | cta Leu 480 | gcc Ala | tat Tyr | gct Ala | gaa Glu | aac Asn 485 | ata Ile | gct Ala | ctg Leu | ctg Leu | 2034 |
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| | caa Gln | acc Thr 555 | ttg Leu | atg Met | gaa Glu | aat Asn | gga Gly 560 | ata Ile | aca Thr | cgg Arg | ctg Leu | tgt Cys 565 | gta Val | ttc Phe | ttt Phe | gga Gly | 2274 |
| | cgt Arg 570 | cag Gln | aaa Lys | gcc Ala | aac Asn | gat Asp 575 | gtt Val | ttg Leu | ttg Leu | tcc Ser | cac His 580 | atg Met | att Ile | act Thr | ttc Phe | cta Leu 585 | 2322 |
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| | gtt Val | ggt Gly | gtt Val | gct Ala 605 | gcc Ala | tat Tyr | gtt Val | ggc Gly | tgg Trp 610 | caa Gln | agc Ser | tcc Ser | tca Ser | att Ile 615 | ctc Leu | aag Lys | 2418 |
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| cat His | ccc Pro | aat Asn | tta Leu | tgg Trp 670 | ata Ile | cgt Arg | tat Tyr | ggt Gly | gcc Ala 675 | gtg Val | gga Gly | ttt Phe | atc Ile | aca Thr 680 | gtg Val | 2610 |
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| tat Tyr | ctt Leu | gac Asp 700 | cca Pro | tat Tyr | att Ile | acc Thr | caa Gln 705 | cca Pro | ata Ile | ata Ile | cag Gln | att Ile 710 | gaa Glu | aga Arg | aaa Lys | 2706 |
| ctt Leu | gtt Val 715 | ctg Leu | ctc Leu | agt Ser | gtt Val | tta Leu 720 | aag Lys | gaa Glu | cca Pro | gta Val | agt Ser 725 | cgt Arg | tct Ser | ata Ile | ttt Phe | 2754 |
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| tgg gag Trp Glu 970 | agt aaa Ser Lys | cca cca Pro Pro 975 | cca c Pro E | cct gga Pro Gly | tgg Trp | cgt Arg 980 | cct Pro | aaa Lys | ggg Gly | ctg Leu | tta Leu 985 | 3522 |
| gtt gcc Val Ala | cat ctt His Leu | cat gag His Glu 990 | cat a His I | aaa tct Lys Ser | gct Ala 99! | Val | aat Asn | cga Arg | att Ile | aga Arg 1000 | Val | 3570 |
| tct gat Ser Asp | gaa cac Glu His 1005 | Ser Leu | ttt g Phe A | gca aca Ala Thr 101 | Cys | tca Ser | aat Asn | gat Asp | ggc Gly 1015 | Thr | gtg Val | 3618 |
| aaa atc Lys Ile | tgg aac Trp Asn 1020 | agt caa Ser Gln | Lys M | atg gag Met Glu L025 | Gly | aag Lys | acc Thr | acc Thr 1030 | Thr | acc Thr | aga Arg | 3666 |
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| ttc tgc Phe Cys 1050 | caa ggc Gln Gly | tcc cac Ser His 105 | Tyr I | ta gcc Leu Ala | ata Ile | gca Ala 1060 | Ser | gat Asp | aat Asn | ggt Gly | gct Ala 1065 | 3762 |
| gtc cag Val Gln | ctt ctt Leu Leu | gga att Gly Ile 1070 | gag g Glu A | gct tct Ala Ser | aag Lys 107! | Leu | ccc Pro | aag Lys | tct Ser | cct Pro 1080 | Lys | 3810 |
| atc cat Ile His | cct cta Pro Leu 1085 | Gln Ser | aga a Arg I | att cta Ile Leu 109 | Asp | cag Gln | aag Lys | gag Glu | gac Asp 1095 | Gly | tgt Cys | 3858 |
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| tat gcc Tyr Ala 1115 | Thr Val | aat ggc Asn Gly | tct c Ser I 1120 | etg gtt Leu Val | ggc Gly | tgg Trp | gac Asp 1125 | Leu | agg Arg | tct Ser | tca Ser | 3954 |
| agc aat Ser Asn 1130 | gcg tgg Ala Trp | act tta Thr Leu 113 | Lys H | cat gat His Asp | tta Leu | aag Lys 1140 | Ser | ggc Gly | ctc Leu | atc Ile | act Thr 1145 | 4002 |

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| gtc cat ggt atc tac tgt agt cct gca gat gga aat cct atc Val His Gly Ile Tyr Cys Ser Pro Ala Asp Gly Asn Pro Ile 1245 1250 1255 | Leu Leu | 4338 |
| aca gct ggc tca gat atg aaa ata agg ttt tgg gac ttg gct Thr Ala Gly Ser Asp Met Lys Ile Arg Phe Trp Asp Leu Ala 1260 1265 1270 | tac cca Tyr Pro | 4386 |
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| ttc cag acc aca cag ggc ttc atc gta act gct tct aga gat Phe Gln Thr Thr Gln Gly Phe Ile Val Thr Ala Ser Arg Asp 1340 1345 1350 | ggg att Gly Ile | 4626 |
| gtg aag gtg tgg aaa taa aacctactga tttgtataaa ttttaatagt Val Lys Val Trp Lys * 1355 | | 4674 |
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